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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/608,090 | 06/30/2003 | Jean-Marie Bernard | 004900-195 | 8126 |

7590 03/28/2007
BURNS, DOANE, SWECKER & MATHIS, L.L.P.
P.O. Box 1404
Alexandria, VA 22313-1404

EXAMINER

SERGEANT, RABON A

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

1711

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 03/28/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | | | | |
|------------------------------|------------------------|--|---------------------|--|
| Office Action Summary | Application No. | | Applicant(s) | |
| | 10/608,090 | | BERNARD, JEAN-MARIE | |
| | Examiner | | Art Unit | |
| | Rabon Sergeant | | 1711 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 23-35 and 37-59 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 23-35 and 37-59 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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1. Claims 23-35 and 37-59 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Firstly, applicant has failed to provide support or definition for the term, “non-foamed polyisocyanate(s)”. Applicant has stated that support for the language is present within page 3, lines 26-33. The examiner has considered this passage, and while it states that a foam is not produced, it does not define “non-foamed polyisocyanate(s)”. The term, “foam”, as used within the specification and as understood within the polyurethane art pertains to a polymeric foam structure; it does not pertain to monomeric polyisocyanate reactants; therefore, it cannot be determined from the cited passage exactly what applicant contemplates by the term.

Secondly, despite applicant’s response, adequate and clear support has not been found for the subject matter of amended claims 48 and 49. Explanation as to how and where the specification provides support for the amended language is required.

2. Claims 23-35 and 37-59 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what limitation or significance is to be ascribed to the language, “non-foamed”, when used in conjunction with “polyisocyanate(s)”. Since foams, by art-recognized definition are polymeric, and since polyisocyanates are understood to be monomeric or

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oligomeric, and therefore, non-polymeric, it is unclear how “non-foamed” further limits or modifies “polyisocyanate(s)”.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 23-27, 30, 31, 33-35, 42, 45, 48, 50, 55, 56, and 59 are rejected under 35

U.S.C. 102(b) as being anticipated by EP 419114.

The reference discloses the reaction of polyisocyanates with cyclic carbonates having an isocyanate reactive substituent attached to the ring, and the use of the resulting product within polymers. See abstract and page 3, lines 1-8. Applicant has argued that the reference pertains to a polymeric foam; therefore, the instant claims, as amended, are distinguished from the reference. In response, while the reference does pertain to a polymeric foam product, applicant has not established that the reference does not disclose non-foamed polyisocyanate monomers that correspond to those claimed, since reactants equivalent to those of applicant are being used within the reference. Furthermore, as aforementioned, since polyisocyanates are monomeric and foams are polymeric, it is unclear how the amended language distinguishes the claims, since one would expect that pre-polymerized components or reactants cannot be polymeric foams. In summation, since it cannot be determined what significance can be ascribed to the “non-foamed” language, and since applicant’s arguments are solely directed to the foamed product of the reference, as opposed to the disclosed reaction of the polyisocyanates and cyclic coreactants, it

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has not been established that the claimed non-foamed monomers are not encompassed by the reference.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication should be directed to R. Sargent at telephone number (571) 272-1079.

R. Sargent
March 25, 2007


RABON SERGENT
PRIMARY EXAMINER